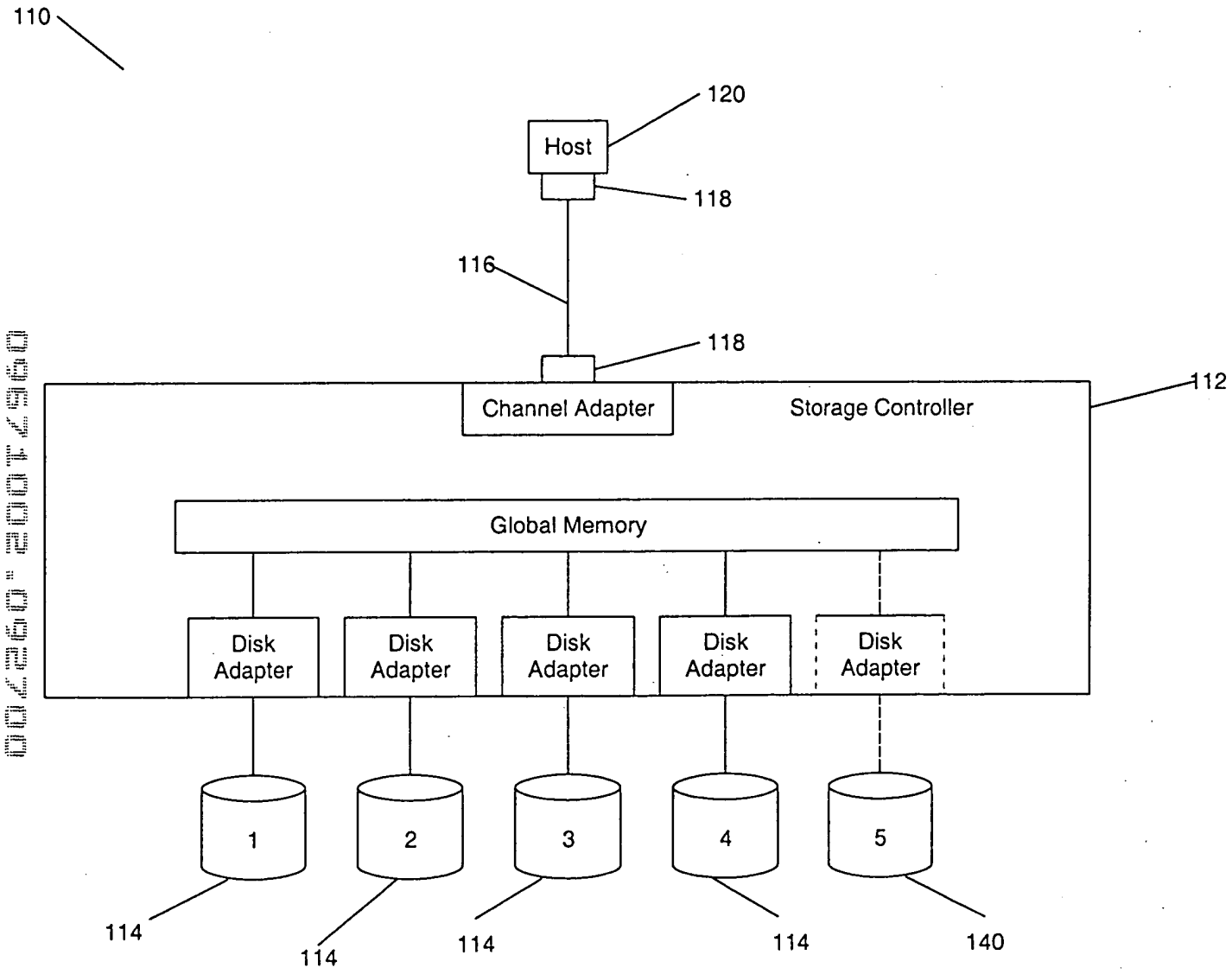

110
120
Host
118
116
118
112
Channel Adapter
Storage Controller
Global Memory
Disk Adapter
Disk Adapter
Disk Adapter
Disk Adapter
Disk Adapter
1
2
3
4
5
114
114
114
114
140

Fig. 1

DO NOT COPY

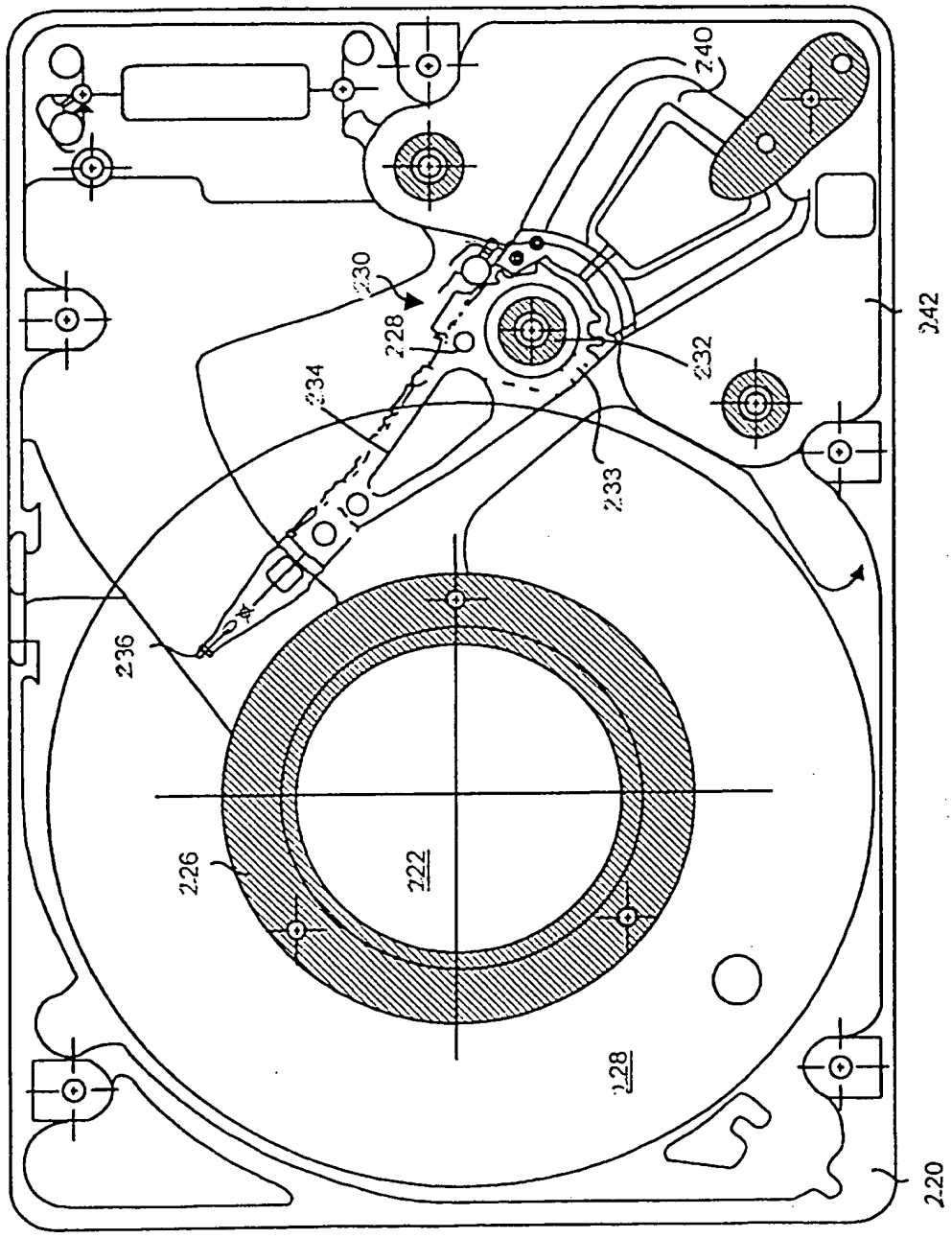
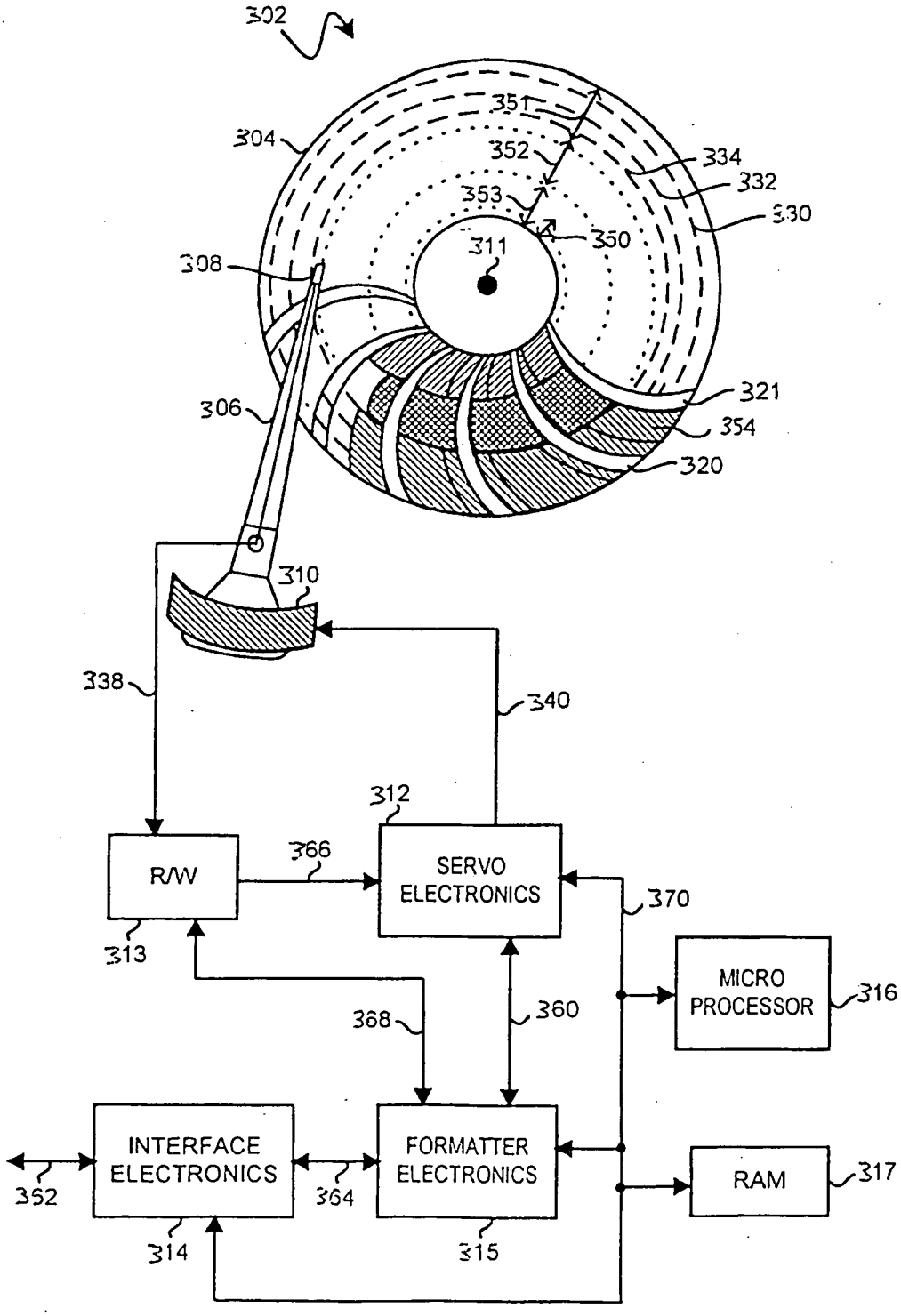


Fig. 2

Fig. 3


302
304
351
352
353
334
332
330
350
311
308
306
321
354
320
310
338
340
312
R/W
366
SERVO ELECTRONICS
370
313
MICRO PROCESSOR
316
368
360
INTERFACE ELECTRONICS
FORMATTER ELECTRONICS
RAM
317
352
364
314
315

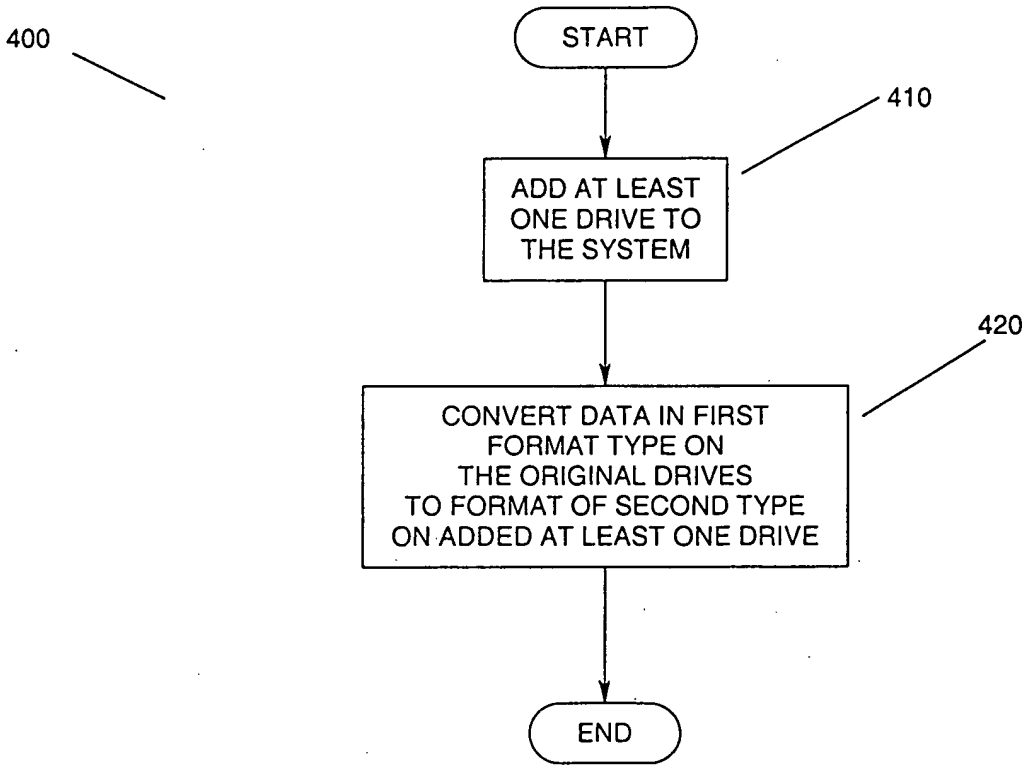

400
START
410
ADD AT LEAST ONE DRIVE TO THE SYSTEM
420
CONVERT DATA IN FIRST FORMAT TYPE ON THE ORIGINAL DRIVES TO FORMAT OF SECOND TYPE ON ADDED AT LEAST ONE DRIVE
END

Fig. 4

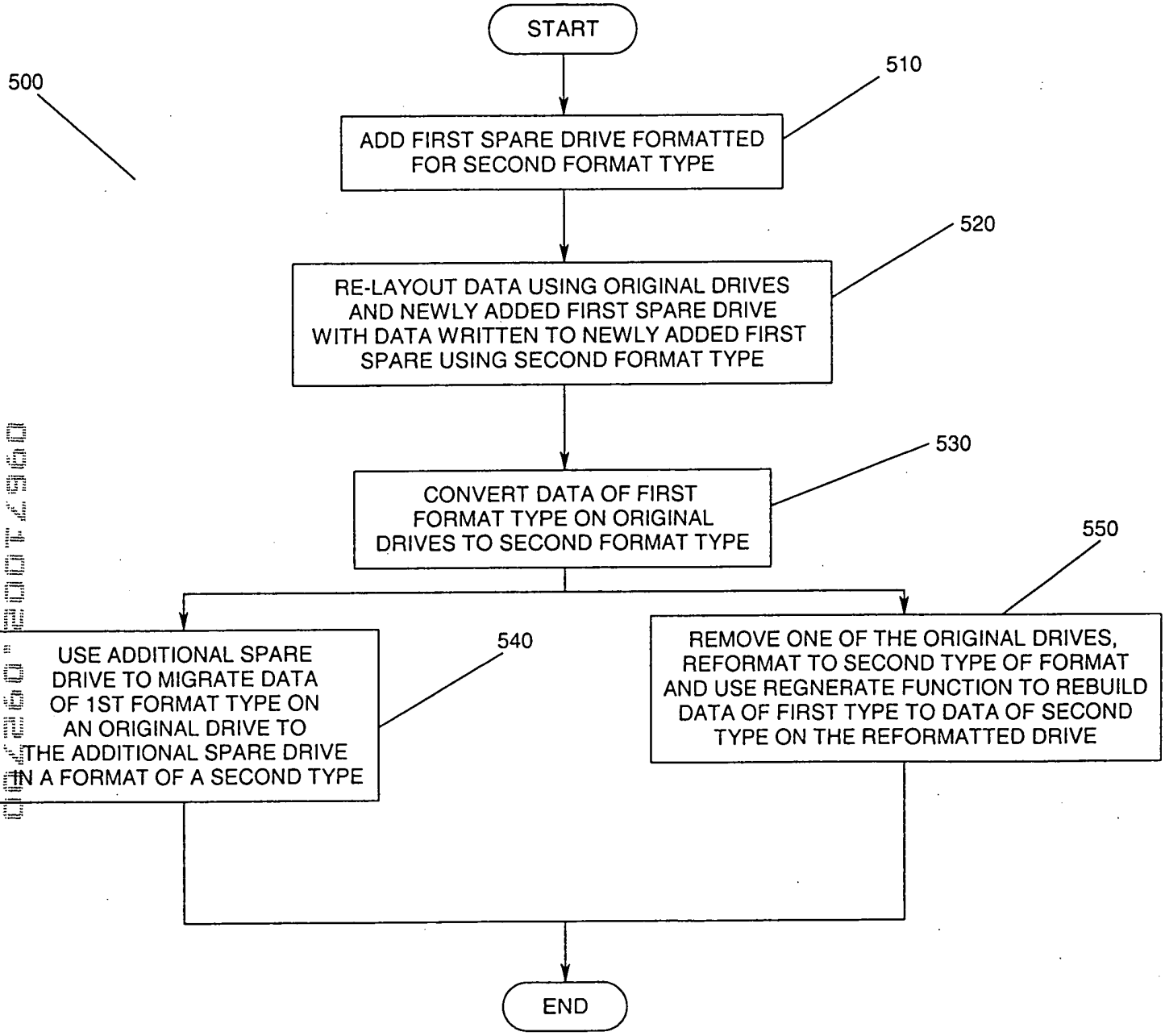

START
500
510
ADD FIRST SPARE DRIVE FORMATTED FOR SECOND FORMAT TYPE
520
RE-LAYOUT DATA USING ORIGINAL DRIVES AND NEWLY ADDED FIRST SPARE DRIVE WITH DATA WRITTEN TO NEWLY ADDED FIRST SPARE USING SECOND FORMAT TYPE
530
CONVERT DATA OF FIRST FORMAT TYPE ON ORIGINAL DRIVES TO SECOND FORMAT TYPE
550
540
USE ADDITIONAL SPARE DRIVE TO MIGRATE DATA OF 1ST FORMAT TYPE ON AN ORIGINAL DRIVE TO THE ADDITIONAL SPARE DRIVE IN A FORMAT OF A SECOND TYPE
REMOVE ONE OF THE ORIGINAL DRIVES, REFORMAT TO SECOND TYPE OF FORMAT AND USE REGNERATE FUNCTION TO REBUILD DATA OF FIRST TYPE TO DATA OF SECOND TYPE ON THE REFORMATTED DRIVE
END

Fig. 5

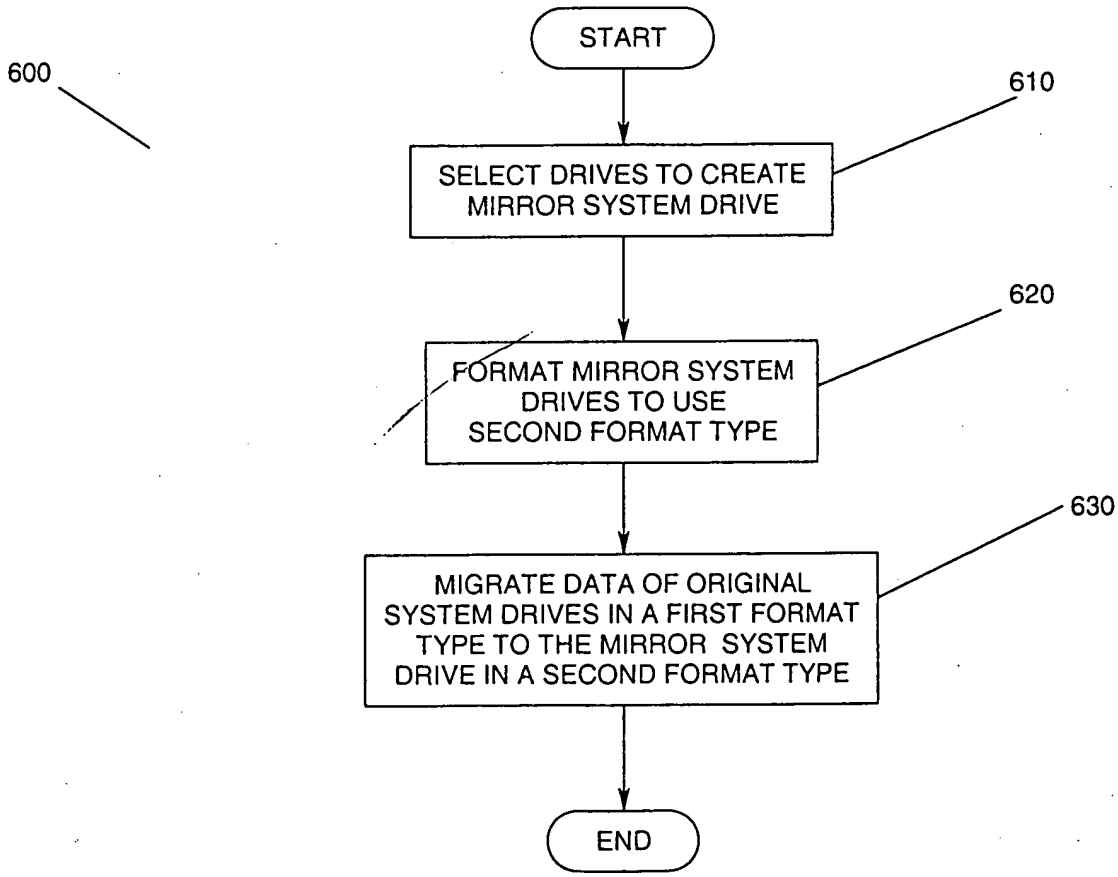

600
START
610
SELECT DRIVES TO CREATE MIRROR SYSTEM DRIVE
620
FORMAT MIRROR SYSTEM DRIVES TO USE SECOND FORMAT TYPE
630
MIGRATE DATA OF ORIGINAL SYSTEM DRIVES IN A FIRST FORMAT TYPE TO THE MIRROR SYSTEM DRIVE IN A SECOND FORMAT TYPE
END

Fig. 6